Kittredge, E.M.(comp.)

Ferns and flowering plants of Woodstock Vermont

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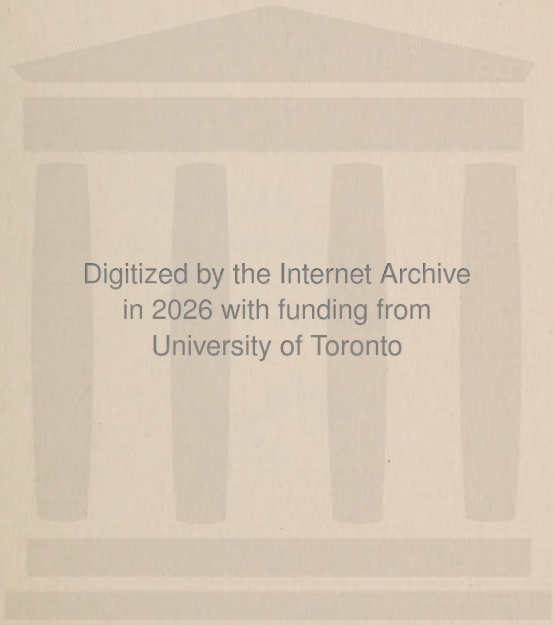
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Bot
Flora

Ferns and Flowering Plants
of
Woodstock Vermont

Compiled by
E. M. Kittredge

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THE ELM TREE PRESS WOODSTOCK VERMONT
1931

To

THE HARTLAND NATURE CLUB

Whose members have been helpful in securing plants
and discovering new stations
and in whose companionship
enthusiasm and knowledge have been gained

Lord, when I look at lovely things that pass,
Under old trees the shadows of young leaves,
Dancing to please the wind along the grass,
Or the gold stillness of the August sun on the August sheaves,
Can I believe there is a heavenlier world than this?
Or if there is
Will the strange heart of any everlasting thing
Bring me those dreams that take my breath away?
They come at evening with the home-flying rooks, and the scent of hay
Over the fields. They come in spring.

Charlotte Mew.

FOREWORD

It was my ambition some years ago to make a collection of the flora of Woodstock. In this work I was assisted by Mrs. J. G. Porter and her daughter, who pressed some of the early flowering plants that bloom before I return to Woodstock for the summer. After a while I realized that if the collection was to be completed within a reasonable period I must have the help of some one who could give to the task her uninterrupted attention. I was so fortunate as to secure Miss E. M. Kittredge, through Dr. Britton of the New York Botanical Garden. For eight summers she gave all her time to collecting. During the last three years she has also painted flowers on the herbarium sheets to show the original color of faded specimens, and from the collection she has made this catalogue.

In 1923 I was given permission by the D.A.R. to exhibit the collection in two of their rooms. It is gratifying to know that each summer brings more visitors to see it.

Now that a new plant for this area is only occasionally found, it seems a fitting time to bring out a check list which I hope may prove a stimulus to the study of plant life in this neighborhood.

ELIZABETH BILLINGS.

Woodstock, Vermont.

Hast thou named all the birds without a gun?
Loved the wood-rose, and left it on its stalk?

. . . . .

Oh be my friend, and teach me to be thine.

Emerson.

FERNS AND FLOWERING PLANTS

A list of the Ferns and Flowering Plants (omitting the Grasses and Sedges) found within a radius of six miles of the center of Woodstock village, specimens of which are in Miss Billings' Herbarium

In presenting this list, the aim is not only to record the species and varieties which grow in the locality, but to foster a protective pride and interest in residents and visitors. Stations for rare plants are not given, for too often the publication of such stations has been the cause of their destruction, —not that people mean to destroy, but in their enthusiasm and delight at acquiring the treasures, they are led to take too many. Amateurs are not the only offenders. The professional collectors are even more to blame for the disappearance of some of our rare plants, for they know the rarity of certain species, and are therefore the more determined to collect all they can find.

Except in the Ferns and Fern Allies, the plant families are listed according to the classification in the seventh edition of Gray's Manual of Botany, but the genera and species in the various families are listed alphabetically, following the plan of the 1915 issue of the Flora of Vermont. In the Ferns and Fern Allies there have been many changes in classification and nomenclature since the issue of the seventh edition, and the classification and names used here are those now recognized in most of the large Herbaria. Following the generic name now used, the name used in the seventh edition of Gray's Manual is given in parentheses.

We are indebted to Mr. Weatherby of the Gray Herbarium, Dr. House, New York State Botanist, members of the staff of the New York Botanical Garden, Frère Marie-Victorin of the University of Montreal, and others for determination of plants and help in many ways in the preparation of this list.

E. M. Kittredge.

FERNS AND FERN ALLIES

Ophioglossaceae. Adder's-tongue Family.

Botrychium. Moonwort. Grape ferns.

B. angustisegmentum. (Pease & Moore.) Fernald. Lance-leaved Grape fern. Frequent on hillsides under Maple trees.

B. Lunaria. L. var. onondagense. (Underw.) House. Onondaga Moonwort. Rare.

B. matricariaefolium. Milde. Matricary Grape fern. Common, occurring in both damp woodland and dry fields.

B. obliquum. Muhl. Ternate Grape fern. Frequent in fields.

B. obliquum. var. dissectum. (Spreng.) Prantl. Occasional.

B. obliquum. var. elongatum. Gilbert & Haberer. Rare.

" " " Habereri. Gilbert. Rare.

" " " oneidense. (Gilbert.) Waters. Rare.

B. silaifolium. Presl. Leathery Grape fern. Occasional in fields.

B. simplex. Hitch. Little Grape fern. Rare.

" " f. compositum. (Milde.) House. Very rare.

B. virginianum. (L.) Sw. Virginia Grape fern. Rattlesnake fern. Common in fields and open woodlands.

Ophioglossum. Adder's-tongue.

O. vulgatum. L. Common Adder's-tongue. Frequent in moist places.

Osmundaceae. Royal Fern Family.

Osmunda.

O. cinnamomea. L. Cinnamon Fern. Common in moist places.

O. cinnamomea. f. bipinnatifida. Clute. Occasional with type.

O. cinnamomea. f. frondosa. (T. & G.) Britton. Rare.

" " " incisa. (Huntington.) Gilbert. Occasional with type.

O. Claytoniana. L. Interrupted Fern. Common in moist places.

O. Claytoniana. f. Mackiana. Kittredge. Mrs. Mack's

Fern. Station destroyed in 1927. (See Fern Journal, Vol. 12, No. 2, 1922.)

O. regalis L. var. spectabilis. (Willd.) A. Gray. American Royal Fern. Common in moist places.

Polypodiaceae. Fern Family.

Adiantum. Maidenhair.

A. pedatum. L. Common Maidenhair. Common in rich woods.

A. pedatum. f. Billingsae. Kittredge. Miss Billings' Fern. Six plants found in 1929. Not found since. (See Fern Journal, Vol. 19, No. 2, 1929.)

Asplenium. Spleenwort.

A. platyneuron. (L.) Oakes. Ebony Spleenwort. Occasional in rocky fields.

A. Trichomanes. L. Maidenhair Spleenwort. Occasional on rocks.

A. viride. Huds. Green Spleenwort. Very rare.

Athyrium. (Asplenium.)

A. angustum. (Willd.) Presl. Northern Lady Fern. Common in all situations, in many forms not specially named, and in the following varieties.

A. angustum. var. elatius. (Link.) Butters. Occasional.
" " f. elegans. (Gilbert.) Butters. Rare.
" " var. rubellum. (Gilbert.) Butters. Rare.

A much crested form was found years ago on the Billings Estate, which closely resembles the English variety *acrocladon*. It is known in cultivation, but has not since been found in the wild.

A. asplenioides. (Michx.) Desv. Southern Lady Fern.
" " var. typicum. Butters. Occasional.

A. pycnocarpon. (Spreng.) Tidestrom. Narrow-leaved Spleenwort. Rare.

A. thelypteroides. (Michx.) Desv. Silvery Spleenwort. Common in all moist places.

Camptosorus. Walking Fern.

C. rhizophyllus. (L.) Link. Walking-leaf. Very rare.

Cryptogramma. Cliff Brake.

C. Stelleri. (S. G. Gmel.) Prantl. Slender Cliff Brake. Very rare.

Dennstedtia. (Dicksonia.)

D. punctilobula. (Michx.) Moore. Hay-scented Fern. Pasture Brake. Common, especially on rocky hillsides.

Filix. (Cystopteris.)
F. bulbifera. (L.) Underw. Bulb-bearing Fern. Common in moist places.
F. fragilis. (L.) Gilib. Fragile, or Brittle Fern. Common in rocky places.

Onoclea.
O. sensibilis. L. Sensitive Fern. Common in moist places.
" " f. obtusilobata. (Schkuhr.) Torr. Occasional with type.

Polypodium.
P. virginianum. L. American Polypody. Frequent on rocks.

Polystichum.
P. acrostichoides. (Michx.) Schott. Christmas Fern. Common in rich woods, occurring in several forms not specially named, and the following well marked varieties.
P. acrostichoides. var. crispum. Clute. Frequent with type.
P. acrostichoides. var. Gravesii. Clute. Very rare.
" " " incisum. (Gray.) House. Frequent with type.
P. acrostichoides. var. multifidum. Clute. Very rare.
P. Braunii. (Spenner.) Fee. var. Purshii. Fernald. Pursh's Holly Fern. Occasional in rich rocky woods.

Pteretis. (Onoclea.)
P. nodulosa. (Michx.) Nieuwl. American Ostrich Fern. Common along streams.

Pteridium. (Pteris.)
P. latiusculum. (Desv.) Maxon. Common Brake. Bracken. Common in fields and along roadsides.

Thelypteris. (Aspidium and Phegopteris.) Shield Ferns.
T. Bootii. Nieuwl. Boot's Shield Fern. Rare.
T. Clintoniana. (D. C. Eaton.) House. Clinton's Shield Fern. Occasional in moist shady places.
T. cristata. (L.) Nieuwl. Crested Shield Fern. Occasional in wet fields and damp woods.
T. dilatata. (Hoffm.) House. var. americana. (Fischer.) House. American Spreading Shield Fern. Rare.
T. Dryopteris. (L.) Slosson. Oak Fern. Common in rich woods.
T. Filix-mas. (L.) Nieuwl. Male Fern. Rare.
Hybrid, T. Filix-mas × marginalis. Rare.

T. Goldiana. (Hook.) Nieuwl. Goldie's Shield Fern. Locally abundant.
T. intermedia. (Muhl.) House. American Shield Fern. Common in rich woods, occurring in many forms not specially named.
T. marginalis. (L.) Nieuwl. Evergreen Wood Fern. Marginal Shield Fern. Common in all shady situations.
T. marginalis. f. elegans. (J. Robinson.) Weatherby. Rare.
T. noveboracensis. (L.) Nieuwl. New York Fern. Common in fields and moist places.
T. Phegopteris. (L.) Slosson. Long Beech Fern. Common in shady places.
T. pittsfordensis. Vict. Pittsford Shield Fern. Rare.
T. spinulosa. (Muhl.) Nieuwl. Spinulose Fern. Frequent in rich woods and moist shady situations.
T. Thelypteris. (L.) House. Marsh Shield Fern. Common in moist places.

Woodsia.
W. alpina. (Bolton.) S. F. Gray. Alpine Woodsia. Very rare.
W. glabella. R. Br. Smooth Woodsia. Very rare.
W. ilvensis. (L.) R. Br. Rusty Woodsia. Frequent in rocky places.
W. obtusa. (Spreng.) Torr. Blunt-lobed Woodsia. Rare.

Equisetaceae. Horsetail Family.

Equisetum.
E. arvense. L. Field, or Common Horsetail. Common on moist banks.
E. fluviatile. L. Swamp Horsetail. Occasional on stream banks.
E. hyemale. L. var. affine. (Engelm.) A. A. Eaton. Scouring rush. Common on moist banks and in wet woods.
E. palustre. L. Marsh Horsetail. Rare.
E. scirpoides. Michx. Sedgelike Horsetail rush. Occasional in dry woods.
E. sylvaticum. L. Wood Horsetail. Occasional in wet shady places.
E. variegatum. Schleicher. Variegated scouring rush. Rare.

Lycopodiaceae. Club Moss Family.

Lycopodium. Club Moss.
L. annotinum. L. Stiff Club Moss. Common in dry woods.

L. annotinum. var. pungens. Desv. Rare.
L. clavatum. L. Running Pine. Known only in the following varieties.
L. clavatum. var. laurentianum. Victorin. Common in dry situations.
L. clavatum. var. megastachyon. Fernald and Bissell. Occasional.
L. clavatum. var. monostachyon. Grev. and Hook. Very rare.
L. clavatum. var. subremotum. Victorin. Occasional in dry situations.
L. clavatum. var. subremotum. forma frondosum. Victorin. Rare.
L. complanatum. L. var. elongatum. Victorin. Rare.
L. flabelliforme. (Fernald.) Blanchard. Fan-shaped Club Moss. Common in fields and woods.
L. flabelliforme. var. ambiguum. Victorin. Occasional in dry woods.
L. flabelliforme. var. ambiguum. f. proliferum. Victorin. Frequent in dry woods.
L. inundatum. L. Bog Club Moss. Rare.
" " var. Bigelovii. Tuckerm. Very rare.
L. lucidulum. Michx. Shining Club Moss. Frequent in wet woods.
L. lucidulum. var. porophilum. (Lloyd & Underw.) Clute. Rare.
L. obscurum. L. Ground Pine. Frequent in moist woods.
" " var. dendroideum. (Michx.) D. C. Eaton. Tree Club Moss. Prince's Pine. Frequent with type.
L. obscurum. var. dendroideum. f. exsertum. Victorin. Rare.
L. sabinaefolium. Willd. Cedar-like Club Moss. Rare.
L. Selago. L. Fir Club Moss. Very rare.
" " var. patens. (Beauv.) Desv. Very rare.
L. tristachyum. Pursh. Three-spiked Club Moss. Frequent in dry open situations.
L. tristachyum. var. Habereri. (House.) Victorin. Rare.

Selaginellaceae. Selaginella Family.

Selaginella.
S. apoda. (L.) Fernald. Creeping Selaginella. Frequent in wet fields.
S. rupestris. (L.) Spring. Rock Selaginella. Occasional.

FLOWERING PLANTS

Taxaceae. Yew Family.

Taxus. Yew.

T. canadensis. Marsh. Ground Hemlock. Canada Yew. Frequent on moist banks, especially under Hemlocks.

Pinaceae. Pine Family.

Abies. Fir.

A. balsamea. (L.) Mill. Balsam Fir. Occasional in rich woods.

Juniperus. Juniper.

J. communis. L. var. depressa. Pursh. Common Juniper. Frequent on hillsides.

J. virginiana. L. Red Cedar. Savin. Rare.

Larix. Larch.

L. laricina. (Du Roi.) Koch. Tamarack. Occasional in wet places. (Small trees of the European Larch, *L. decidua,* Mill., are occasionally found near the plantations of that species.)

Picea. Spruce.

P. mariana. (Mill.) BSP. Black Spruce. Rare.

P. rubra. (DuRoi.) Dietr. Red Spruce. Common on hills. (Small trees of the so-called Norway Spruce, *P. Abies.* (L.) Karst, are occasionally found near plantations of that species.)

Pinus. Pine.

P. Strobus. L. White Pine. Occasional. It is thought that the few trees which are known in the wild state in this region are all seedlings from a few trees planted about seventy-five years ago, and some of these in turn are now producing seedlings.

Thuja. Arbor Vitae.

T. occidentalis. L. Commonly but *wrongly* called White Cedar. Occasional on hillsides.

Tsuga. Hemlock.

T. canadensis. (L.) Carr. Hemlock Spruce. Common in rocky places.

Typhaceae. Cat-tail Family.

Typha.

T. angustifolia. L. Narrow-leaved Cat-tail. Occasional in swamps.

T. latifolia. L. Common Cat-tail. Common, in swamps and ditches.

Sparganiaceae. Bur-reed Family.

Sparganium. Bur-reed.

S. americanum. Nutt. Nuttall's Bur-reed. Rare.

" " var. androcladon. (Engeln.) Fernald and Eames. Occasional on the edges of ponds and in swamps.

S. angustifolium. Michx. Narrow-leaved Bur-reed. Frequent in swamps and on the borders of ponds.

S. simplex. Huds. Simple-stemmed Bur-reed. Frequent in wet places.

Najadaceae. Pondweed Family.

Najas.

N. flexilis. (Willd.) Rostk. & Schmidt. Naiad. Frequent in quiet water.

Potamogeton. Pondweed.

P. amplifolius. Tuckerm. Large-leaved Pondweed. Occasional in quiet water and swamps.

P. epihydrus. Raf. Nuttall's Pondweed. Common in quiet water.

P. foliosus. Raf. Leafy Pondweed. Occasional in swamps.

P. natans. L. Common Pondweed. Frequent in ditches and quiet water.

P. Oakesianus. Robbins. Oakes' Pondweed. Rare. (This genus has not been well studied in this vicinity.)

Alismaceae. Water-plantain Family.

Alisma. Water plantain.

A. Plantago-aquatica. L. Water plantain. Borders of ponds and slow streams. Occurring in two forms, one very small, the other occasionally attaining a height of three feet.

Sagittaria. Arrow-head.

S. latifolia. Willd. Broad-leaved Arrow-head. Common in all wet places and exceedingly variable in leaf form.

Araceae. Arum Family.

Acorus.

A. Calamus. L. Sweet Flag. Occasional in springy places.

Arisaema. Indian Turnip.
A. Stewardsonii. Britton. Fluted Jack-in-the-Pulpit. Occasional in very wet places.
A. triphyllum. (L.) Schott. Common Jack-in-the-Pulpit. Common everywhere.

Calla. White Water Arum.
C. palustris. L. Wild Calla. Occasional in bogs.

Symplocarpus.
S. foetidus. (L.) Nutt. Skunk Cabbage. Very rare.

Lemnaceae. Duckweed Family.

Lemna.
L. minor. L. Lesser Duckweed. Occasional in quiet water.

Commelinaceae. Spiderwort Family.

Commelina. Day-flower.
C. communis. L. Small Day-flower. Occasional as a weed in gardens.

Tradescantia. Spiderwort.
T. virginiana. L. Common Spiderwort. Rare escape.

Juncaceae. Rush Family.

Luzula. Wood Rush.
L. campestris. (L.) DC., var. multiflora. (Ehrh.) Celak. Frequent in dry woods.
L. saltuensis. Fernald. Hairy Wood Rush. Frequent in dry places.

Juncus. Bog Rush.
J. articulatus. L. Jointed Rush. Occasional.
J. brachycephalus. (Engelm.) Buchneu. Small-headed Rush. Occasional.
J. brevicaudatus (Engelm.) Fernald. Narrow-panicled Rush. Occasional.
J. bufonius. L. Toad Rush. Common in wet places.
J. canadensis. J. Gay. Canada Rush. Occasional.
J. effusus. L. Bog Rush. Common in wet places.
J. nodosus. L. Knotted Rush. Common in wet places.
J. tenuis. Willd. Slender Rush. Occasional.

Liliaceae. Lily Family.

Allium. Onion.
A. tricoccum. Ait. Wild Leek. Frequent in rich woods.

Asparagus.
A. officinalis. L. Frequent as an escape.

Clintonia.
C. borealis. (Ait.) Raf. Yellow Clintonia. Frequent in woods.

Convallaria.
C. majalis. L. Lily-of-the-valley. Rare escape.

Erythronium.
E. americanum. Ker. Yellow Adder's-tongue. Common in rich woods.

Hemerocallis. Day Lily.
H. fulva. L. Common Tawny Day Lily. Frequent on roadsides.

Lilium. Lily.
L. canadense. L. Field, or Wild Yellow Lily. Frequent in meadows and along roadsides.
L. tigrinum. Ker. Tiger Lily. Occasional escape.

Maianthemum.
M. canadense. Desf. Canada Mayflower. Two-leaved Solomon's Seal. Common in woods.

Medeola.
M. virginiana. L. Indian Cucumber-root. Frequent in rich woods.

Oakesia.
O. sessilifolia. (L.) Wats. Bellwort. Common in woods.

Polygonatum. Solomon's Seal.
P. biflorum. (Walt.) Ell. Small Solomon's Seal. Frequent in woods.

Smilacina. False Solomon's Seal.
S. racemosa. (L.) Desf. False Spikenard. Frequent in woods and thickets.
S. stellata. (L.) Desf. Star-flowered Solomon's Seal. Occasional.

Smilax. Green-brier.
S. herbacea. L. Carrion-flower. Occasional in thickets.

Streptopus. Twisted Stalk.
S. amplexifolius. (L.) DC. Clasping-leaved Twisted Stalk. Rare.
S. roseus. Michx. Common Twisted Stalk. Occasional in woods and thickets.

Tofieldia.
T. glutinosa. (Michx.) Pers. False Asphodel. Occasional along river and in moist ground.

Trillium. Wake Robin.
T. cernuum. L. Nodding Trillium. Rare.
T. erectum. L. Purple Trillium. Wake Robin. Common in woods.
T. grandiflorum. (Michx.) Salisb. Great White Trillium. Very rare.
T. undulatum. Willd. Painted Trillium. Frequent in rich woods.

Uvularia. Bell-wort.
U. grandiflora. Sm. Large-flowered Bell-wort. Frequent in woods.

Veratrum. False Hellebore.
V. viride. Ait. American White Hellebore. Indian Poke. Occasional in wet fields. (A form with pale yellow flowers and pale leaves has been found.)

Amaryllidaceae. Amaryllis Family.

Hypoxis. Star Grass.
H. hirsuta. (L.) Coville. Yellow Star Grass. The only station known in the state destroyed by plowing years ago.

Iridaceae. Iris Family.

Iris. Fleur-de-lis.
I. versicolor. L. Wild Iris. Blue Flag. Common in wet meadows.

Sisyrinchium. Blue-eyed Grass.
S. angustifolium. Mill. Narrow-leaved Blue-eyed Grass. Occasional in grassland, and along roadsides.
S. mucronatum. Michx. Michaux' Blue-eyed Grass. Rare.

Orchidaceae. Orchis Family.

Calopogon.
C. pulchellus. (Sw.) R. Br. Grass Pink. Rare.

Corallorrhiza. Coral-root.
C. maculata. Raf. Large Coral-root. Occasional in rich woods.
C. maculata. var. flavida. (Peck.) Farwell. Very rare.
C. trifida. Chatelain. Early Coral-root. Occasional in woods.

Cypripedium. Moccasin Flower.

C. acaule. Ait. Pink Lady's Slipper. Occasional in rich woods.

C. hirsutum. Mill. Showy Lady's Slipper. Rare.

C. parviflorum. Salisb. var. pubescens. (Willd.) Knight. Large Yellow Lady's Slipper. Rare.

Epipactis. Rattle-snake Plantain.

E. decipiens. (Hook.) Ames. Rare.

E. pubescens. (Willd.) A. A. Eaton. Downy Rattlesnake Plantain. Rare.

E. repens. (L.) Crantz. var. ophioides. (Fernald.) Eaton. Lesser Rattlesnake Plantain. Rare.

E. tesselata. (Lodd.) A. A. Eaton. Loddige's Rattlesnake Plantain. Occasional in rich woods.

Habenaria. Rein Orchis.

H. bracteata. (Willd.) R. Br. Long-bracted Orchis. Frequent in woods.

H. clavellata. (Michx.) Spreng. Small Wood Orchis. Occasional.

H. dilatata. (Pursh.) Gray. Tall White Bog Orchis. Occasional.

H. dilatata. var. media. (Rydb.) Ames. Rare.

H. fimbriata. (Ait.) R. Br. Large Purple Fringed Orchis. Occasional.

H. Hookeri. Torr. Hooker's Orchis. Occasional in woods.

H. hyperborea. (L.) R. Br. Green Wood Orchis. Common in damp woods. Many plants much smaller than typical *H. hyperborea* are also to be found.

H. lacera. (Michx.) R. Br. Ragged Green Orchis. Frequent in grassland. A hybrid between *H. lacera* and *H. psycodes* was found that was not the hybrid described as *H. Andrewsii,* but no distinctive name has been found for it.

H. macrophylla. Goldie. Large Round-leaved Orchis. Very rare.

H. orbiculata. (Pursh.) Torr. Round-leaved Orchis. Rare.

H. psycodes. (L.) Sw. Small Purple Fringed Orchis. Frequent in wet meadows. This species occurs in many shades of color, ranging from the palest pinky-lavender, to a rich purple, but both extremes are rather rare. There also occurs a pure white form, and one that is all white but for a faint green line. These albinos and extremes in color occur in the unshaded fields. When the plants are found in shady situations, they are of a lavender color.

Liparis.
L. Loeselii. (L.) Richard. Fen Orchis. Occasional in damp woods.

Malaxis. Adder's Mouth.
M. monophyllos. (L.) Lindl. White Adder's Mouth. Rare.
M. unifolia. (Michx.) BSP. Green Adder's Mouth. Frequent in woods.

Orchis.
O. spectabilis. L. Showy Orchis. Frequent in rich woods. This species varies greatly in color.

Pogonia.
P. ophioglossoides. (L.) Ker. Rose Pogonia. Rare.

Spiranthes. Ladies' Tresses.
S. cernua. (L.) Richard. Nodding Ladies' Tresses. Common in wet places.
S. gracilis. (Bigel.) Beck. Slender Ladies' Tresses. Frequent in dry fields.
S. lucida. (H. H. Eaton.) Ames. Shining Ladies' Tresses. Rare.
S. Romanzoffiana. Cham. Hooded Ladies' Tresses. Occasional.

Salicaceae. Willow Family.

Populus. Poplar. Aspen.
P. alba. L. White Poplar. Silver-leaved Poplar. Occasional escape.
P. balsamifera. L. Balsam Poplar. Tacamahac. Occasional.
P. candicans. Ait. Balm of Gilead. Occasional escape.
P. grandidentata. Michx. Large-toothed Aspen. Frequent in rich woods.
P. nigra. L. var. italica. DuRoi. Lombardy Poplar. Occasional escape.
P. tremuloides. Michx. Trembling Aspen. Popple. Common in woods.

Salix. Willow.
S. alba. L. var. vitellina. (L.) Koch. Rare escape.
S. amygdaloides. Anders. Peach-leaved Willow. Very rare.
S. cordata. Muhl. Heart-leaved Willow. Frequent along river.
S. discolor. Muhl. Pussy Willow. Glaucus Willow. Frequent in wet places.
S. humilis. Marsh. Prairie Willow. Occasional.

S. lucida. Muhl. Shining Willow. Frequent in swamps.
S. nigra. Marsh. Black Willow. Frequent in wet places.
S. purpurea. L. Basket Willow. Rare escape.
S. rostrata. Richards. Beaked Willow. Common along river.
S. sericea. Marsh. Silky Willow. Frequent in swamps.

Myricaceae. Sweet Gale Family.

Myrica.
M. asplenifolia. L. Sweet Fern. Frequent in dry fields.
M. Gale. L. Sweet Gale. Rare.

Juglandaceae. Walnut Family.

Carya. Hickory. White Walnut.
C. cordiformis. (Wang.) Koch. Bitternut Hickory. Rare.
C. glabra. (Mill.) Spach. Pignut. Very rare.

Juglans. Walnut.
J. cinerea. L. Butternut. Frequent. Trees seem to be dying in many localities.

Betulaceae. Birch Family.

Alnus. Alder.
A. incana. (L.) Moench. Speckled or Hoary Alder. Common along streams.

Betula. Birch.
B. alba. L. var. cordifolia. (Regel.) Fernald. Canoe Birch. Rare.
B. alba. L. var. papyrifera. (Marsh.) Spach. Paper Birch. Frequent in woods.
B. lenta. L. Cherry, or Black Birch. Rare.
B. lutea. Michx. Yellow Birch. Common in woods.
B. populifolia. Marsh. Old Field, or Gray Birch. Occasional.

Carpinus. Hornbeam.
C. caroliniana. Walt. Blue Beech. American Hornbeam. Water Beech. Frequent along streams and in wet places.

Corylus. Filbert.
C. americana. Walt. Hazelnut. Occasional.
C. rostrata. Ait. Beaked Hazelnut. Frequent in thickets.

Ostrya. Hop Hornbeam.
O. virginiana. (Mill.) K. Koch. American Hop Hornbeam. Ironwood. Leverwood. "Remmon." Frequent in woods and fields.

Fagaceae. Beech Family.

Fagus. Beech.
F. grandifolia. Ehrh. American Beech. Occasional in rich woods.

Quercus. Oak.
Q. rubra. L. Red Oak. Common in woods, especially on the hills.

Urticaceae. Nettle Family.

Boehmeria. False Nettle.
B. cylindrica. (L.) Sw. False Nettle. Common in swampy places.

Cannabis.
C. sativa. L. Hemp. Persistent on the site of an old oil mill.

Humulus. Hop.
H. japonicus. Sieb. & Zucc. Japanese Hop. Rare escape.
H. Lupulus. L. Common Hops. Frequent in thickets.

Laportea. Wood Nettle.
L. canadensis. (L.) Gaud. Itch Nettle. Frequent in moist places.

Pilea. Richweed.
P. pumila. (L.) Gray. Clearweed. Common everywhere.

Ulmus. Elm.
U. americana. L. American or White Elm. Common everywhere.
U. fulva. Michx. Slippery or Red Elm. Frequent in wet ground.

Urtica. Nettle.
U. gracilis. Ait. Tall, or Slender White Nettle. Common in thickets.
U. Lyallii. Wats. Lyall's Nettle. Occasional along river.

Aristolochiaceae. Birthwort Family.

Asarum.
A. canadense. L. Wild Ginger. Common in rich woods.

Polygonaceae. Buckwheat Family.

Fagopyrum. Buckwheat.
F. esculentum. Moench. Buckwheat. Occasional in fields and on roadsides.

F. tartaricum. (L.) Gaertn. India Wheat. Occasional in fields.

Polygonum. Knotweed.

P. acre. HBK. var. leptostachyum. Meisn. Water Smartweed. Occasional.

P. amphibium. L. Water Persicaria. Frequent in ponds.

" " var. Hartwrightii. (Gray.) Bissel. Rare.

P. aviculare. L. Knotgrass. Doorweed. Common around dwellings and barns.

P. aviculare. var. angustissimum. Meisn. Narrow-leaved Knotweed. Common.

P. aviculare. var. littorale. (Link.) Koch. Very rare.

P. cilinode. Michx. Fringed Black Bindweed. Frequent in the hills.

P. convolvulus. L. Black Bindweed. Common in fields.

P. Hydropiper. L. Common Smartweed. Water Pepper. Moist places, common.

P. lapathifolium. L. Pale Persicaria. Frequent.

P. Muhlenbergii. (Meisn.) Wats. Swamp Smartweed. Frequent in muddy places.

P. orientale. L. Prince's Feather. Rare garden escape.

P. pennsylvanicum. L. Pink Knotweed. Common everywhere.

P. Persicaria. L. Lady's Thumb. Common everywhere.

P. sagittatum. L. Tear-thumb. Common in wet places.

P. scandens. L. Climbing False Buckwheat. Frequent in thickets.

P. virginianum. L. Virginia Knotweed. Occasional in thickets.

Rheum.

R. Rhaponticum. Rhubarb. Pieplant. Rare garden escape.

Rumex. Dock.

R. Acetosa. L. Garden Sorrel. Becoming frequent in wet fields.

R. Acetosella. L. Sheep Sorrel. Common everywhere.

R. altissimus. Wood. Peach-leaved Dock. Occasional.

R. crispus. L. Yellow Dock. Common in fields and roadsides.

R. obtusifolius. L. Bitter Dock. Common in fields and roadsides. A hybrid between *R. crispus* and *R. obtusifolius* was found.

R. Patientia. L. Patience Dock. Becoming common in wet places.

Chenopodiaceae. Goosefoot Family.

Chenopodium. Pigweed.
C. album. L. Pigweed. Lamb's Quarters. Common everywhere.
C. album. var. viride. (L.) Moq. Green Pigweed. Rare.
C. Botrys. L. Jerusalem Oak. Feather Geranium. Rare.
C. capitatum. (L.) Asch. Strawberry Blite. Rare.
C. hybridum. L. Maple-leaved Goosefoot. Common everywhere.
C. lanceolatum. Muhl. Lance-leaved Goosefoot. Becoming frequent.
C. leptophyllum. Nutt. Narrow-leaved Goosefoot. Occasional.
C. murale. L. Sowbane. Rare.

Amaranthaceae. Amaranth Family.

Amaranthus. Amaranth.
A. graecizans. L. Tumble Weed. Occasional.
A. hybridus. L. Green, or Shining Amaranth. Becoming frequent.
A. hybridus. f. hypochondriacus. (L.) Robinson. Prince's Feather. Rare.
A. paniculatus L. Purple Amaranth. Rare.
A. Powellii. Wats. Powell's Amaranth. Very rare.

Aizoaceae. Carpet-weed Family.

Mollugo. Indian Chickweed.
M. verticillata. L. Carpet-weed. Frequent in pastures.

Caryophyllaceae. Pink Family.

Agrostemma.
A. Githago. L. Corn Cockle. Occasional.

Arenaria. Sandwort.
A. serpyllifolia. L. Thyme-leaved Sandwort. Occasional on hillsides.

Cerastium. Mouse-ear Chickweed.
C. arvense. L. Field Mouse-ear Chickweed. Rare.
C. vulgatum. L. Common Mouse-ear Chickweed. Common everywhere.

Dianthus. Pink.
D. barbatus. L. Sweet William. Bunch Pink. Rare garden escape.

D. deltoides. L. Maiden Pink. Frequent on one hillside. Occurs in all shades of pink and crimson, and pure white.

Lychnis. Campion.
L. alba. Mill. Evening Lychnis. Common in fields and thickets.
L. chalcedonica. L. Scarlet Lychnis. Rare garden escape.
L. coronaria. (L.) Desr. Mullein Pink. Rare garden escape.

Sagina. Pearlwort.
S. procumbens. L. Procumbent Pearlwort. Frequent in wet places.

Saponaria. Soapwort.
S. officinalis. L. Bouncing Bet. Common on hills and roadsides.

Silene. Catchfly.
S. antirrhina. L. Sleepy Catchfly. Occasional.
S. Armeria. L. Sweet William Catchfly. Rare.
S. latifolia. (Mill.) Britten & Rendle. Bladder Campion. Common along roadsides and in fields.
S. noctiflora. L. Night-flowering Catchfly. Occasional in fence rows and thickets.

Spergula. Spurry.
S. arvensis. L. Corn Spurry. Occasional as a weed in gardens.

Spergularia. Sand Spurry.
S. rubra. (L.) J. & C. Presl. Purple Sand Spurry. Rare.

Stellaria. Starwort.
S. graminea. L. Lesser Stitchwort. Frequent in roadside ditches.
S. graminea. var. latifolia. Peterm. Broadleaved Stitchwort. Rare.
S. media. L. Common Chickweed. Common as a weed everywhere.
S. strictiflora. Rydb. Rare.

Portulacaceae. Purslane Family.

Claytonia. Spring Beauty.
C. caroliniana. Michx. Wide-leaved Spring Beauty. Common in woods.

Portulaca. Purslane.
P. oleracea. L. Common purslane. Pussley. Common everywhere.

Nymphaeaceae. Water Lily Family.

Brasenia.
B. Schreberi. Gmel. Water Shield. Rare.

Castalia.
C. odorata. (Ait.) Woodville & Wood. Sweet-scented Water Lily. Occasional.

Nymphaea. Yellow Pond Lily.
N. advena. Ait. Cow Lily. Spatter Dock. Frequent in ponds.

Ranunculaceae. Crowfoot Family.

Actea. Baneberry.
A. alba. (L.) Mill. White Baneberry. Common in woods.
A. rubra. (Ait.) Willd. Red Baneberry. Common in woods.
A. rubra. f. neglecta. (Gill.) Robinson. Very rare.
A. alba × rubra. Rare.

Anemone.
A. cylindrica. Gray. Long-fruited Anemone. Occasional in fields and roadsides.
A. quinquefolia. L. Wind-flower. Occasional in woods.
A. riparia. Fernald. River Anemone. Rare.
A. virginiana. L. Tall Anemone. Frequent in thickets and fields.

Aquilegia. Columbine.
A. canadensis. L. Wild Columbine. Honeysuckle. Common in rocky places.
A. vulgaris. L. European Columbine. Rare garden escape.

Caltha. Marsh Marigold.
C. palustris. L. Cowslips. Common in wet places.

Clematis. Virgin's Bower.
C. virginiana. L. Wild Clematis. Common in thickets.

Coptis. Gold-thread.
C. trifolia. (L.) Salisb. Common in wet woods.

Hepatica. Liver-leaf.
H. acutiloba. DC. Sharp-lobed Hepatica. Frequent in woods.
H. triloba. Chaix. Round-lobed Hepatica. Occasional in rich woods.

Ranunculus. Crowfoot.
R. abortivus. L. Small-flowered Crowfoot. Common in wet woods and thickets.
R. acris. L. Tall Buttercup. Common in fields.
R. bulbosus. L. Bulbous Buttercup. Occasional in grassland.
R. pennsylvanicus. L. f. Bristly Crowfoot. Occasional in moist ground.
R. recurvatus. Poir. Hooked Crowfoot. Frequent in wet places.
R. repens. L. Creeping Buttercup. Rare.
R. septentrionalis. Poir. Swamp Buttercup. Frequent in ditches and wet places.

Thalictrum. Meadow Rue.
T. dioicum. L. Early Meadow Rue. Frequent on hills.
T. polygamum. Muhl. Tall Meadow Rue. Common in wet fields. A specimen in flower labelled *T. purpurascens.* L. has been in the Herbarium since 1910, but it is thought that it is only a form of *T. polygamum.*

Berberidaceae. Barberry Family.

Berberis.
B. vulgaris. L. Common Barberry. Common on all hills.

Caulophyllum. Blue Cohosh.
C. thalictroides. (L.) Michx. Pappoose Root. Frequent in rich woods.

Papaveraceae. Poppy Family.

Chelidonium.
C. majus. L. Celandine. Common in fence rows and on banks.

Papaver. Poppy.
P. Rhoeas. L. Field, or Corn Poppy. Occasional escape.
P. somniferum. L. Opium Poppy. Rare garden escape.

Sanguinaria.
S. canadensis. L. Bloodroot. Common in woods.

Fumariaceae. Fumitory Family.

Adlumia. Climbing Fumitory.
A. fungosa. (Ait.) Greene. Mountain Fringe. Occasional in thickets.

Corydalis.
C. sempervirens. (L.) Pers. Pale Corydalis. Occasional in rich woods.

Dicentra.
D. canadensis. (Goldie.) Walp. Squirrel Corn. Occasional in rich woods.
D. Cucullaria. (L.) Bernh. Dutchman's Breeches. Occasional in rich woods. (These two lovely and fragile plants are fast disappearing from our woods because of the insatiable desire on the part of most people to have big bouquets of these delicate early wild flowers.)

Fumaria. Fumitory.
F. officinalis. L. Common Fumitory. Occasional escape.

Cruciferae. Mustard Family.

Arabis. Rock Cress.
A. glabra. (L.) Bernh. Tower Mustard. Frequent in fields.
A. hirsuta. (L.) Scop. Hairy Rock Cress. Frequent in fields.
A. laevigata. (Muhl.) Poir. Smooth Rock Cress. Rare.

Barbarea. Winter Cress.
B. stricta. Andrz. Erect Fruited Winter Cress. Common in moist ground.
B. vulgaris. R. Br. Common Winter Cress. Common along roadsides and in wet places.

Berteroa.
B. incana. (L.) DC. Hoary Alyssum. Locally abundant.

Brassica. Mustard.
B. arvensis. (L.) Ktze. Charlock. Kale. Common in cultivated fields.
B. arvensis. var. Schkuhriana. Fernald. Rare.
B. campestris. L. Rutabaga. Kale. Frequent in fields.
B. Japonica. Sieb. Pot Herb Mustard. Persistent in old gardens.
B. juncea. (L.) Cosson. Indian Mustard. Occasional.
B. nigra. (L.) Koch. Black Mustard. Occasional.
B. oleracea. L. Cabbage. Rare escape.

Camelina.
C. sativa. (L.) Crantz. False Flax. Rare.

Capsella.
C. Bursa-pastoris. (L.) Madic. Shepherd's Purse. Common in all situations.

Cardamine. Bitter Cress.
C. flexuosa. Brit.
C. parviflora. L. Small Bitter Cress. Occasional in wet places.

C. pennsylvanica. Muhl. Bitter Cress. Frequent in wet places.

Conringia.
C. orientalis. (L.) Dumort. Hare's-ear Mustard. Rare.

Dentaria. Toothwort.
D. diphylla. Michx. Pepper-root. Frequent in woods.
D. maxima. Nutt. Large Pepper-root. Occasional in woods.

Erysimum. Treacle Mustard.
E. cheiranthoides. L. Worm-seed Mustard. Frequent in waste places.

Hesperis. Rocket.
H. matronalis. L. Dame's Rocket. Frequent garden escape.

Lepidium. Peppergrass.
L. apetalum. Willd. Wild Peppergrass. Common in waste places.
L. campestre. (L.) R. Br. Field Cress. Occasional.
L. virginicum. L. Peppergrass. Common along roadsides.

Neslia.
N. paniculata. (L.) Desv. Ball Mustard. Rare.

Radicula. Water Cress.
R. Armoracia. (L.) Robinson. Horseradish. Occasional.
R. Nasturtium-aquaticum. (L.) Britten & Rendle. True Water Cress. Frequent in slow streams and ponds.
R. palustris. (L.) Moench. Marsh Cress. Rare.
" " var. hispida. Marsh Cress. Frequent, becoming a weed.
R. sylvestris. (L.) Druce. Creeping Yellow Cress. Frequent in moist places.

Raphanus. Radish.
R. Raphanistrum. L. Jointed Charlock. Common in cultivated fields.
R. sativus. L. Garden Radish. Rare escape.

Sisymbrium. Hedge Mustard.
S. altissimum. L. Tumble Mustard. Becoming common.
S. officinale. (L.) Scop. Rare.
" " var. leiocarpum. DC. Common everywhere.

Thlaspi. Penny Cress.
T. arvense. L. Field Penny Cress. Occasional.

Sarraceniaceae. Pitcher Plant Family.

Sarracenia.
S. purpurea. L. Pitcher Plant. Occasional in bogs.

Droseraceae. Sundew Family.

Drosera.
D. rotundifolia. L. Round-leaved Sundew. Common in wet places.

Crassulaceae. Orpine Family.

Penthorum.
P. sedoides. L. Ditch Stonecrop. Frequent along streams.

Sedum. Stonecrop. Orpine.
S. acre. L. Mossy Stonecrop. Occasional in old stone walls and stone heaps.
S. ternatum. Michx. Wild Stonecrop. Rare.
S. triphyllum. (Haw.) S. F. Gray. Garden Orpine. Live-for-ever. Frequent escape, but seldom blooming.

Saxifragaceae. Saxifrage Family.

Chrysosplenium.
C. americanum. Schwein. Golden Saxifrage. Frequent in boggy places in the hills.

Mitella. Bishop's Cap.
M. diphylla. L. Mitrewort. Common in woods.
M. nuda. L. Naked Mitrewort. Rare.

Parnassia. Grass of Parnassus.
P. caroliniana. Michx. Common Grass of Parnassus. Frequent in wet places.

Ribes. Currant.
R. americanum. Mill. Wild black Currant. Rare.
R. Cynosbati. L. Prickly Gooseberry. Frequent in fence rows and thickets.
R. oxyacanthoides. L. Smooth Gooseberry. Occasional on the hills.
R. vulgare. Lam. Garden Red Currant. Occasional escape.

Saxifraga. Saxifrage.
S. pennsylvanica. L. Swamp Saxifrage. Common in wet places.

S. virginiensis. Michx. Early Saxifrage. Common on rocks.

Tiarella.
T. cordifolia. L. False Mitrewort. Common in rich woods.

Hamamelidaceae. Witch Hazel Family.

Hamamelis.
H. virginiana. L. Witch Hazel. Frequent.

Rosaceae. Rose Family.

Agrimonia. Agrimony.
A. gryposepala. Wallr. Stickseed. Common in fields.
A. striata. Michx. Beggar-ticks. Occasional along roads.

Amelanchier. Shadbush.
A. canadensis. (L.) Medic. Juneberry. Frequent on hills.
A. laevis. Weigand. Shadbush. Juneberry. Frequent on hills.
A. canadensis × laevis. Weigand. Rare.
A. sanguinea. (Pursh.) DC. Red-leaved Shadbush. Occasional on hills.

Crataegus. Thornapple.
C. intricata. J. Lange. Lange's Thorn. Rare.
C. macrosperma. Ashe. Large-fruited Hawthorn. Frequent on hillsides.
C. punctata. Jacq. Dotted Thorn. Frequent on hillsides.
" " var. aurea. Ait. Rare.
C. succulenta. Schrad. Long-spine Thorn. Occasional on hills.

Dalibarda.
D. repens. L. Dalibarda. Rare.

Filipendula.
F. rubra. (Hill.) Robinson. Queen of the Prairie. Rare.
F. Ulmaria. (L.) Maxim. Queen of the Meadow. Occasional in moist places.

Fragaria. Strawberry.
F. vesca. L. var. americana. Porter. American Wood Strawberry. Common in open rocky woods.
F. virginiana. Duchesne. Wild Strawberry. Common in fields.

Geum. Avens.
G. canadense. Jacq. White Avens. Frequent in thickets.

G. rivale. L. Water or Purple Avens. Occasional in swamps.
G. strictum. Ait. Yellow Avens. Common in wet places.

Potentilla. Cinquefoil.
P. argentea. L. Silvery Cinquefoil. Common in dry fields.
P. arguta. Pursh. Tall Cinquefoil. Frequent in pastures.
P. canadensis. L. Five-finger. Common in fields.
P. fruticosa. L. Shrubby Cinquefoil. Common in wet fields.
P. monspeliensis. L. Rough Cinquefoil. Frequent in fields.
P. recta. L. Rough-fruited Cinquefoil. Rare.
P. tridentata. Ait. Mountain Cinquefoil. Rare.

Prunus. Plum and Cherry.
P. nigra. Ait. Canada Plum. Occasional along streams.
P. pennsylvanica. L. f. Bird or Pin Cherry. Frequent in copses.
P. serotina. Ehrh. Black or Rum Cherry. Common in copses.
P. virginiana. L. Choke Cherry. Common in thickets, occasionally becoming large trees.

Pyrus. Pear and Apple.
P. americana. (Marsh.) DC. American Mountain Ash. Frequent in the higher hills.
P. Aucuparia. (L.) Ehrh. European Mountain Ash. Rare. Apparently coming from trees on the Billings Estate.
P. Malus. L. Apple. Common in thickets.

Rosa. Rose.
R. acicularis. Lind. var. Bourgeauiana. Crepin. Frequent in the hills where houses once stood.
R. blanda. Ait. Smooth Wild Rose. Frequent in thickets.
R. carolina. L. Swamp Rose. Rare.
R. cinnamomea. L. Cinnamon Rose. Frequent along roadsides.
R. humilis. Marsh. Pasture Rose. Occasional.
R. Lyoni. Pursh. Lyon's Rose. Occasional.
R. rubiginosa. L. Sweetbrier. Frequent on hills.
R. spinosissima. L. Scotch Brier. Occasional escape.
R. tomentosa. Smith. Rare.

Rubus. Blackberry and Raspberry.
R. allegheniensis. Porter. High-bush Blackberry. Common in pastures and dry fields.
R. argutus. Link. Tall Blackberry. Rare.
R. canadensis. Thornless Blackberry. Rare.

R. frondosus. Bigel. Leafy-flowered Blackberry. Rare.
R. idaeus. L. aculeatissimus. (C. A. Mey.) Regel & Tilling. Red Raspberry. Common along roadsides and in dry fields.
R. occidentalis. L. Black Raspberry. Frequent in thickets.
R. pubescens. Raf. Running Raspberry. Occasional.

Sorbaria.
S. sorbifolia. (L.) A. Br. Ash-leaved Spiraea. Occasional escape along roadsides.

Spiraea.
S. japonica. L. f. Rare escape.
S. latifolia. L. Meadow Sweet. Common in fields and along roadsides.
S. tomentosa. L. Steeple Bush. Hardhack. Common in fields.

Waldsteinia.
W. fragarioides. (Michx.) Trattinick. Barren Strawberry. Occasional in fence rows.

Leguminosae. Pulse Family.

Amphicarpa.
A. monoica. (L.) Ell. Common Hog-peanut. Common in thickets.
A. Pitcheri. T. & G. Hairy Hog-peanut. Occasional in wet places.

Apios. Wild Bean.
A. tuberosa. Moench. Ground Nut. Common in wet places.

Desmodium. Tick Trefoil.
D. canadense. (L.) DC. Showy Tick Trefoil. Frequent in woods.
D. grandiflorum. (Walt.) DC. Large-flowered Tick Trefoil. Frequent in woods.

Medicago. Medick.
M. lupulina. L. Black Medick. Common in fields and along roads.
M. sativa. L. Alfalfa. Persistent in fields, and as an escape.

Melilotus. Sweet Clover.
M. alba. Desr. Sweet White Clover. Frequent along roadsides.
M. Indica. (L.) All. Rare. (Coming in as a weed in gardens.)

M. officinalis. (L.) Lam. Rare. (Coming in as a weed along roadsides.)

Robinia. Locust.
R. Pseudo-Acacia. L. Common Locust. Frequent as an escape.
R. viscosa. Vent. Clammy Locust. Rare escape.

Trifolium. Clover.
T. agrarium. L. Yellow Hop Clover. Common along roads and in fields.
T. arvense. L. Rabbit-foot Clover. Frequent in grassland.
T. hybridum. L. Alsike. Common in fields and along roadsides.
T. incarnatum. L. Italian Clover. Rare escape.
T. pratense. L. Red Clover. Common everywhere.
T. repens. L. White, or Dutch Clover. Common everywhere.

Vicia. Vetch.
V. Cracca. L. Common Blue Vetch or Tare. Common everywhere.
V. sativa. L. Spring Vetch. Rare.
V. Sepium. L. Wild Tare. Rare.
V. tetrasperma. (L.) Moench. Slender Vetch. Rare.

Linaceae. Flax Family.

Linum.
L. usitatissimum. L. Common Flax. Occasional.

Oxalidaceae. Wood Sorrel Family.

Oxalis.
O. Acetosella. L. White Wood Sorrel. Common in damp woods.
O. Brittoniae. Small. Mrs. Britton's Wood Sorrel. Frequent.
O. corniculata. L. Yellow Wood Sorrel. Rare.
O. europaea. Jordan. Common Wood Sorrel. Common everywhere.
O. stricta. L. Yellow Wood Sorrel. Frequent in fields and along roadsides.

Geraniaceae. Geranium Family.

Erodium. Storksbill.
E. cicutarium. (L.) L'Her. Storksbill, or Alfilaria. Rare.

E. moschatum. (Burm. f.) L'Her. Musky Storksbill. Rare.

Geranium. Cranesbill.
G. Bicknellii. Britton. Northern Cranesbill. Frequent on roadsides.
G. Robertianum. L. Herb Robert. Common in shady places.
G. Robertianum. f. albiflora. (G. Don.) House. Rare.

Rutaceae. Rue Family.

Zanthoxylum. Prickly Ash.
Z. americanum. Mill. Occasional on roadsides.

Polygalaceae. Milkwort Family.

Polygala. Milkwort.
P. paucifolia. Wild. Fringed Polygala. Frequent.
P. polygama. Walt. has been reported, but no specimen has been sent in.

Euphorbiaceae. Spurge Family.

Acalypha.
A. virginica. L. Three-seeded Mercury. Occasional in fields.

Euphorbia. Spurge.
E. Cyparissias. L. Cypress Spurge. Frequent along roadsides.
E. glyptosperma. Engelm. Ridge-seeded Spurge. Frequent in sandy places.
E. hirsuta. (Torr.) Weigand. Hairy Spurge. Common in sandy places.
E. humistrata. Engelm. Hairy spreading Spurge. Frequent.
E. maculata. L. Milk Purslane. Common everywhere.
E. Peplus. L. Petty Spurge. Locally abundant as a weed in gardens.

Anacardiaceae. Cashew Family.

Rhus. Sumac.
R. Toxicodendron. L. Poison Ivy. Frequent, especially along roads and in thickets, seldom fruiting.
R. Toxicodendron. var. radicans. Occasional.
R. typhina. L. Staghorn Sumac. Common everywhere, occasionally attaining a height of 20, or more, feet.

Aquifoliaceae. Holly Family.

Ilex. Holly.

I. verticillata. (L.) Gray. Black Alder. Occasional in fence rows.

I. verticillata. var. tenuifolia. (Torr.) Wats. Rare.

Nemopanthus.

N. mucronata. (L.) Trel. Mountain Holly. Frequent in swamps.

Celastraceae. Staff Tree Family.

Celastrus. Staff Tree.

C. scandens. L. Bitter-sweet. Common in thickets and fence rows.

Aceraceae. Maple Family.

Acer. Maple.

A. Negundo. L. Box Elder. Ash-leaved Maple. Frequent along river.

A. pennsylvanica. L. Striped Maple. Common all through the hills.

A. platanoides. L. var. Schwedleri. Koch. Small plants from a tree on the Billings Estate.

A. rubrum. L. Red, or Swamp Maple. Common everywhere.

A. saccharum. Marsh. Sugar, Rock, or Hard Maple. Common everywhere.

A. saccharum. var. nigrum. (Michx. f.) Britton. Black Maple. Occasional.

A. saccharinum. L. White, Silver, or River Maple. Common everywhere.

A. spicatum. Lam. Mountain Maple. Common in the hills.

Balsaminaceae. Touch-me-not Family.

Impatiens. Balsam.

I. biflora. Walt. Spotted Jewel-weed. Common in all wet places. A form with rose-colored flowers is occasionally found.

I. pallida. Nutt. Pale Touch-me-not. Common in wet places.

Rhamnaceae. Buckthorn Family.

Rhamnus.

R. alnifolia. L'Her. Alder-leaved Buckthorn. Rare.

R. cathartica. L. Common Buckthorn. Common in the uplands.

Vitaceae. Vine Family.

Psedera. Woodbine.

P. quinquefolia. (L.) Greene. American Woodbine. Virginia Creeper. Common in thickets.

P. quinquefolia. var. hirsuta. (Donn.) Rehder. Rare.

Vitis. Grape.

V. aestivalis. Michx. Summer Grape. Occasional in thickets.

V. labrusca. L. Northern Fox Grape. Rare.

V. vulpina. L. Frost Grape. Common along streams and in thickets.

Tiliaceae. Linden Family.

Tilia.

T. americana. L. Basswood. American Linden. Common everywhere.

Malvaceae. Mallow Family.

Abutilon. Indian Mallow.

A. Theophrasti. Medic. Velvet Leaf. Rare.

Hibiscus. Rose Mallow.

H. Trionum. L. Flower-of-an-hour. Rare.

Malva. Mallow.

M. Alcea. L. European Mallow. Occasional.

M. moschata. L. Musk Mallow. Common along roadsides, occurring in both Pink and White flowered forms.

M. Alcea × M. moschata. Several plants were found some years ago. The station was soon after destroyed, but plants removed to a garden have persisted.

M. rotundifolia. L. Common Mallow. Cheeses. Common everywhere.

M. sylvestris. L. High Mallow. Rare.

Hypericaceae. St. John's-wort Family.

Hypericum.

H. boreale. (Britton.) Bicknell. Rare.
H. ellipticum. Hook. Pale St. John's-wort. Common in wet places.
H. majus. (Gray.) Britton. Large St. John's-wort. Occasional.
H. mutilum. L. Dwarf St. John's-wort. Common in fields.
H. perforatum. L. Common St. John's-wort. Common everywhere.
H. punctatum. Lam. Spotted St. John's-wort. Occasional.
H. virginicum. L. Marsh St. John's-wort. Common in swampy places.

Cistaceae. Rock-rose Family.

Lechea.

L. intermedia. Leggett. Pinweed. Occasional.

Violaceae. Violet Family.

Viola. Heart's-ease.

V. affinis. Le Conte. Le Conte's Violet. Rare.
V. blanda. Willd. Sweet White Violet. Common in moist places.
V. canadensis. L. Canada Violet. Common in woods.
V. conspersa. Reichenb. American Dog Violet. Common in fields.
V. cucullata. Ait. Marsh Blue Violet. Common in all wet places.
V. eriocarpa. Schwein. Smooth Yellow Violet. Common in rich woods.
V. fimbriatula. Sm. Early Blue Violet. Common in fields.
V. incognita. Brainerd. Large-leaved White Violet. Occasional.
V. nephrophylla. Greene. Northern Bog Violet. Rare.
V. pallens. (Banks.) Brainerd. Northern White Violet. Occasional.
V. papilionacea. Pursh. Meadow Hooded Violet. Common in damp places.
V. pubescens. Ait. Downy Yellow Violet. Common in woods.
V. renifolia. Gray. Kidney-leaved Violet. Occasional.

V. rotundifolia. Michx. Round-leaved Yellow Violet. Common in rich woods.
V. Selkerkii. Pursh. Great-spurred Violet. Rare.
V. septentrionalis. Greene. Northern Blue Violet. Occasional.
V. sororia. Willd. Wooly Blue Violet. Sister Violet. Occasional.
V. tricolor. L. (?) Johnny-jump-up. Occasional in grasslands. (This genus has not been properly studied in this vicinity.)

Thymelaeaceae. Mezereum Family.

Daphne.
D. Mezereum. L. Occasional.

Dirca. Leatherwood.
D. palustris. L. Wicopy. Moosewood. Occasional in damp ground.

Lythraceae. Loosestrife Family.

Lythrum. Loosestrife.
L. alatum. Pursh. Winged Loosestrife. Rare.
L. Salicaria. L. Spiked Purple Loosestrife. Long Purples. Rare.

Onagraceae. Evening Primrose Family.

Circaea.
C. alpina. L. Dwarf Enchanter's Nightshade. Common in all places.
C. lutetiana. L. Tall Enchanter's Nightshade. Common in all places.

Epilobium. Willow-herb.
E. adenocaulon. Haussek. Northern Willow-herb. Frequent in wet places.
E. angustifolium. L. Fire-weed. Common in fence rows and fields.
E. coloratum. Muhl. Purple-veined Willow-herb. Frequent in wet places.
E. densum. Raf. Linear-leaved Willow-herb. Frequent in wet places.
E. molle. L. Soft Willow-herb. Occasional.

Ludvigia. False Loosestrife.
L. palustris. (L.) Ell. Water Purslane. Frequent on the river bank.

Oenothera. Evening Primrose.

O. biennis. L. Common Evening Primrose. Common in fields and along roadsides.

O. biennis. var. grandiflora. (Ait.) Lindl. Rare.

O. muricata. L. Northern Evening Primrose. Frequent in fields and waste places.

O. muricata. var. canescens. (T. & G.) Robinson. Hoary Evening Primrose. Occasional.

O. pumila. L. Small Sun-drops. Frequent in dry fields.

Araliaceae. Ginseng Family.

Aralia. Wild Sarsaparilla.

A. hispida. Vent. Bristly Sarsaparilla. Occasional in the hills.

A. nudicaulis. L. Wild Sarsaparilla. Common in woods and thickets.

A. racemosa. L. Spikenard. Occasional in rich woods.

Panax. Ginseng.

P. quinquefolium. L. Ginseng. Rare. (This plant has been practically exterminated from the hills by the collection of the roots for commercial use. Hundreds of pounds of the dried roots have been sold from this locality each year for several years.)

P. trifolium. L. Dwarf Ginseng. Ground Nut. Common in rich woods.

Umbelliferae. Parsley Family.

Aegopodium. Goutweed.

A. Podagraria. L. Bishop's Weed. Rare escape.

" " var. variegatum. L. Rare escape.

Angelica.

A. atropurpurea. L. Masterwort. Frequent in wet places.

Carum.

C. Carvi. L. Caraway. Occasional in fields and along roadsides.

Cicuta. Water Hemlock.

C. bulbifera. L. Water Hemlock. Common in wet places.

C. maculata. L. Beaver Poison. Spotted Cowbane. Common in wet places.

Cryptotaenia.

C. canadensis. (L.) DC. Honewort. Common in moist places.

Daucus. Carrot.
D. Carota. L. Wild Carrot. Queen Anne's Lace. Common in fields and roadsides.

Heracleum. Masterwort.
H. lanatum. Michx. Cow Parsnip. Occasional in moist places.

Hydrocotyle.
H. americana. L. Water Pennywort. Common in wet places.

Osmorhiza.
O. Claytoni. (Michx.) Clarke. Sweet Cicely. Common in woods.
O. longistylis. (Torr.) DC. Anise-root. Occasional in woods.

Pastinaca. Parsnip.
P. sativa. L. Wild Parsnip. Common along roadsides.

Sanicula. Snakeroot.
S. marilandica. L. Sanicle. Black Snakeroot. Common in damp places.

Sium.
S. cicutaefolium. Schrank. Water Parsnip. Frequent in wet places.

Zizia. Meadow Parsnip.
Z. aurea. (L.) Koch. Golden Alexanders. Common in wet meadows.

Cornaceae. Dogwood Family.

Cornus. Cornel.
C. alternifolia. L. f. Dogberry. Common in thickets and woods.
C. Amomum. Mill. Kinnikinnik. Silky Cornel. Common in wet ground.
C. canadensis. L. Bunch-berry. Dwarf Cornel. Common in wet woods.
C. circinata. L'Her. Round-leaved Dogwood. Occasional in woods.
C. stolonifera. Michx. Red-osier Dogwood. Common along streams.

Ericaceae. Heath Family.

Calluna. False Heather.
C. vulgaris. (L.) Hull. Ling. Rare.

Chamaedaphne. Cassandra.
C. calyculata. (L.) Moench. Leather Leaf. Rare.

Chimaphila. Pipsissewa.
C. umbellata. (L.) Nutt. Prince's Pine. Occasional in deep woods.

Chiogones. Creeping Snowberry.
C. hispidula. (L.) T. & G. Moxie Plum. Occasional in bogs.

Epigaea. Ground Laurel.
E. repens. Trailing Arbutus. Mayflower. Occasional, becoming rare.

Gaultheria. Wintergreen.
G. procumbens. L. Checkerberry. Frequent in rich woods.

Kalmia. American Laurel.
K. angustifolia. L. Lambkill. Wicky. Rare.

Moneses.
M. uniflora. (L.) Gray. One-flowered Pyrola. Rare.

Monotropa. Pinesap.
M. Hypopitys. L. False Beechdrops. Occasional in woods.
M. uniflora. L. Indian Pipe. Corpse Plant. Frequent in rich woods.

Pyrola. Shinleaf.
P. americana. Sweet. Round-leaved Shinleaf. Rare.
P. asarifolia. Michx. var. incarnata. (Fisch.) Fernald. Bog Shinleaf. Rare.
P. chlorantha. Sw. Green Shinleaf. Occasional in rich woods.
P. elliptica. Nutt. Shinleaf. Common in rich woods.
P. secunda. L. Frequent in woods.

Vaccinium. Blueberry.
V. macrocarpon. Ait. Large Cranberry. Rare.
V. Oxycoccos. L. Small Cranberry. Occasional in bogs.
V. pennsylvanicum. Lam. Low Sweet Blueberry. Common on hills.
V. pennsylvanicum. var. nigrum. Wood. Low Black Blueberry. Rare.
V. vacillans. Kalm. Late Low Blueberry. Frequent on dry hills.

Primulaceae. Primrose Family.

Lysimachia. Loosestrife.
L. Nummularia. L. Moneywort. Yellow Myrtle. Common in wet ground.

L. quadrifolia. L. Four-leaved Loosestrife. Common in dry thickets.
L. terrestris. (L.) BSP. Spiked Yellow Loosestrife. Common in wet fields.
L. thrysiflora. L. Tufted Loosestrife. Rare.

Steironema.
S. ciliatum. (L.) Raf. Fringed Loosestrife. Common in wet places.

Trientalis. Chickweed Wintergreen.
T. borealis. Raf. Star Flower. Frequent in rich woods.

Oleaceae. Olive Family.

Fraxinus. Ash.
F. americanum. L. White Ash. Common in woods.
F. nigra. Marsh. Black Ash. Rare.
F. pennsylvanica. Marsh. Red Ash. Rare.

Syringa. Lilac.
S. vulgaris. L. Common Lilac. Frequent escape and persistent in old fields.

Gentianaceae. Gentian Family.

Centaurium. Centaury.
C. umbellatum. Gilib. Bitter-herb. European Centaury. Rare.

Gentiana. Gentian.
G. Andrewsii. Griseb. Closed Gentian. Bottle Gentian. Frequent in moist places.
G. crinita. Froel. Fringed Gentian. Occasional on hills.

Halenia. Spurred Gentian.
H. deflexa. (Sm.) Griseb. Rare.

Apocynaceae. Dogbane Family.

Apocynum.
A. androsaemifolium. L. Spreading Dogbane. Common along roadsides.
A. cannabinum. L. Indian Hemp. Common on river shore.
A. medium. Greene. Intermediate Dogbane. Occasional on river shore.
A. sibericum. Jacq. Clasping-leaved Dogbane. Rare.

Vinca. Periwinkle.
V. minor. L. Common Periwinkle. Myrtle. Frequent escape.

Asclepiadaceae. Milkweed Family.

Asclepias. Silkweed.
A. purpurascens. L. Purple Milkweed. Rare.
A. syrica. L. Common Milkweed. Common everywhere.

Cynanchum. Swallow-wort.
C. nigrum. Black Swallow-wort. Occasional.

Convolvulaceae. Convolvulus Family.

Convolvulus.
C. arvensis. L. Field Bindweed. Small Wild Morning Glory. Frequent in cultivated fields.
C. sepium. L. Hedge Bindweed. Wild Morning Glory. Common everywhere.

Cuscuta. Love Vine.
C. Gronovii. Willd. Dodder. Common along streams.

Polemoniaceae. Polemonium Family.

Phlox.
P. paniculata. L. Garden Phlox. Occasional garden escape.

Hydrophyllaceae. Waterleaf Family.

Hydrophyllum.
H. virginianum. L. Waterleaf. Common in damp woods.

Boraginaceae. Borage Family.

Cynoglossum. Hound's Tongue.
C. officinale. L. Common Hound's Tongue. Frequent on dry hillsides.

Echium. Viper's Bugloss.
E. vulgare. L. Blue Ruin. Blue Devil. Frequent in grassland.

Lappula. Stickseed.
L. echinata. Gilbert. Burseed. Frequent in shady situations.
L. virginiana. (L.) Greene. Beggar's Lice. Common in thickets.

Lithospermum. Puccoon.
L. officinale. L. Common Gromwell. Common on dry hillsides.

Myosotis. Forget-me-not.
M. arvensis. (L.) Hill. Field Scorpion Grass. Rare.
M. laxa. Lehm. Smaller Forget-me-not. Occasional in moist places.
M. scorpoides. L. Forget-me-not. Occasional along brooks.

Symphytum. Comfrey.
S. officinale. L. Common Comfrey. Frequent on hills.

Verbenaceae. Vervain Family.

Verbena.
V. angustifolia. Michx. Rare.
V. hastata. L. Blue Vervain. Common in wet places.
V. urticaefolia. L. White Vervain. Common along roadsides.

Labiatae. Mint Family.

Dracocephalum.
D. parviflorum. Nutt. False Dragonhead. Rare.

Galeopsis. Hemp Nettle.
G. Tetrahit. L. Common Hemp Nettle. Common in all places.

Hedeoma. Mock Pennyroyal.
H. hispida. Pursh. Rough Pennyroyal. Rare.
H. pulegioides. (L.) Pers. American Pennyroyal. Frequent in fields.

Lamium. Dead Nettle.
L. maculatum. Spotted Dead Nettle. Occasional escape. The white flowered form occurs also.

Leonurus. Motherwort.
L. Cardiaca. L. Common Motherwort. Common everywhere.

Lycopus. Water Hoarhound.
L. americanus. Muhl. Cut-leaved Water Hoarhound. Common near streams.
L. uniflorus. Michx. Northern Bugleweed. Common near water.
L. virginicus. L. Bugleweed. Common in wet places.

Mentha. Mint.
M. arvensis. L. Field Mint. Occasional.
" " var. canadensis. (L.) Briquet. Canada Mint. Common in wet places.
M. piperita. L. Peppermint. Frequent along streams.

M. spicata. L. Spearmint. Common along streams and in wet places.

Monarda. Horse Mint.
M. fistulosa. L. Bergamot. Locally abundant and becoming frequent.
M. mollis. L. Downy Bergamot. Occasional.
M. media. Willd. Purple Bergamot. Rare.

Nepeta. Cat Mint.
N. Cataria. L. Catnip. Common everywhere.
N. hederacea. (L.) Trevisan. Gill-over-the-Ground. Common everywhere.

Prunella. Self Heal.
P. vulgaris. L. Heal-all. Common everywhere. Colonies of plants bearing rose-colored flowers are common all over the Billings Estate, and many plants bearing pure white flowers are to be seen in several places.

Pycnanthemum. Mountain Mint.
P. flexuosum. (Walt.) BSP. Rare.

Salvia. Sage.
S. officinalis. L. Garden Sage. Rare escape.

Satureja. Calamint. Savory.
S. vulgaris. (L.) Fritsch. Basil. Common in dry fields.

Scutellaria. Skullcap.
S galericulata. L. Marsh Skullcap. Common in wet places.
S. lateriflora. L. Mad-dog Skullcap. Common in shady wet places.

Thymus. Thyme.
T. Serpyllum. L. Creeping Thyme. Rare.

Trichostema. Blue Curls.
T. dichotomum. L. Bastard Pennyroyal. Rare.

Solanaceae. Nightshade Family.

Datura.
D. Stramonium. L. Jimson Weed. Very rare.
D. Tatula. L. Purple Stramonium. Very rare.

Physalis. Ground Cherry.
P. heterophylla. Nees. var. ambigua. (Gray.) Rydb. Common in fields that have been cultivated.

Solanum. Nightshade.
S. Dulcamara. L. Woody Nightshade. Common in fence rows and thickets.

S. nigrum. L. Black Nightshade. Common in waste places.
S. rostratum. Dunal. Sand Bur. Rare.
S. carolinense was found on the Billings Estate at the time of the meeting of the Vermont Botanical Club July 5, 1910, and specimens collected then are in various herbaria, but the species has entirely disappeared, and no specimen is available for the Billings Herbarium.

Scrophulariaceae. Figwort Family.

Chelone. Snakehead.
C. glabra. L. Turtlehead. Common in moist places.
C. Lyoni. Pursh. Lyon's Turtlehead. Rare escape.

Ilysanthes. False Pimpernel.
I. dubia. (L.) Barnh. Short-stalked False Pimpernel. Occasional on river shore.

Linaria. False Flax.
L. canadensis. (L.) Dumont. Blue Toadflax. Occasional in dry places.
L. minor. (L.) Desf. Small Snap Dragon. Occasional in dry places.
L. vulgaris. Hill. Butter-and-eggs. Common everywhere.

Melampyrum.
M. lineare. Lam. Cow Wheat. Rare.

Mimulus. Monkey Flower.
M. ringens. L. Square-stemmed Monkey Flower. Common in wet places. Plants with pure white flowers have been reported.

Pedicularis. Lousewort.
P. canadensis. L. Wood Betony. Occasional in open woods.

Pentstemon. Beard-tongue.
P. pallidus. Small. Pale Beard-tongue. Rare.

Scrophularia. Figwort.
S. leporella. Bicknell. Hare Figwort. Occasional in fence rows and hillside pastures.

Verbascum. Mullein.
V. Blattaria. L. Moth Mullein. Rare.
" " var. albiflorum. Ktze. Rare.
V. Thapsus. L. Common Mullein. Velvet Plant. Common everywhere.

Veronica. Speedwell.

V. agrestis. L. Procumbent Speedwell. Locally abundant.

V. americana. Schwein. American Brooklime. Common along streams.

V. arvensis. L. Corn Speedwell. Frequent in fields.

V. Chamaedrys. L. Bird's-eye. Locally abundant.

V. officinalis. L. Common Speedwell. Common everywhere.

V. peregrina. L. Neckweed. Purslane Speedwell. Common as a weed in gardens.

V. serpyllifolia. L. Thyme-leaved Speedwell. Common as a weed in lawns.

V. Tournefortii. C. C. Gmel. Persian Speedwell. Locally abundant.

Lentibulariaceae. Bladderwort Family.

Utricularia.

U. vulgaris. L. var. americana. Great Bladderwort. Occasional in pools left by spring high water.

Orobanchaceae. Broom-rape Family.

Epifagus. Cancer-root.

E. virginiana. (L.) Bart. Beech-drops. Common under Beech trees.

Orobanche. Broom-rape.

O. uniflora. L. One-flowered Cancer-root. Occasional.

Phrymaceae. Lopseed Family.

Phryma. Lopseed.

P. leptostachya. L. Common in woods and waste places.

Plantaginaceae. Plantain Family.

Plantago. Plantain.

P. lanceolata. L. English Plantain. Rib-Grass. Common in fields.

P. major. L. Common Plantain. Common everywhere. A very small plant, which seems to be a dwarf variety of this species, is frequently met.

P. Rugelii. Dene. Rugel's Plantain. Common everywhere.

Rubiaceae. Madder Family.

Galium. Bedstraw. Cleavers.
G. Aparine. L. Goose Grass. Common in woods.
G. asprellum. Michx. Rough Bedstraw. Common in wet thickets.
G. boreale. L. Northern Bedstraw. Occasional on hillsides.
G. Claytoni. Michx. Clayton's Bedstraw. Occasional along river.
G. erectum. Huds. Upright Bedstraw. Rare.
G. lanceolatum. Torr. Wild Liquorice. Frequent in woods.
G. Mollugo. L. Wild Madder. Occasional in grasslands.
G. palustre. L. Marsh Bedstraw. Frequent in swamps.
G. sylvaticum. L. Scotch Mist. Rare escape.
G. tinctorum. L. Stiff Marsh Bedstraw. Occasional along river.
G. trifidum. L. Small Bedstraw. Occasional.
G. triflorum. Michx. Fragrant Bedstraw. Occasional in moist places.
G. verum. L. Yellow Bedstraw. Locally abundant.

Houstonia. Innocence.
H. caerulea. L. Bluets. Common in grassy places.
" " var. Faxonorum. Pease & Moore. Rare.

Mitchella. Partridge Berry.
M. repens. L. Common in woods and sometimes in grass on the hills.

Caprifoliaceae. Honeysuckle Family.

Diervilla.
D. Lonicera. Mill. Bush Honeysuckle. Frequent on rocky hillsides.

Linnaea. Linnaeus' Flower.
L. borealis. L. var. americana. (Forbes.) Rehder. Twinflower. Rare.

Lonicera. Honeysuckle.
L. canadensis. Marsh. American Fly Honeysuckle. Occasional.
L. tartarica. L. Tartarian Honeysuckle. Frequent in thickets.
L. Xylosteum. L. European Fly Honeysuckle. Frequent in thickets. (It is evident that these two species have been introduced to this vicinity by seeds carried by birds from the shrubs planted years ago on the Billings

Estate. It is notable that only the typical forms have thus made themselves at home.)

Sambucus. Elder.

S. canadensis. L. Common Elderberry. Frequent in fence rows.

S. racemosa. L. Red-berried Elder. Common on the hills and in rich woods.

Symphoricarpos. Snowberry.

S. racemosus. Michx. var. laevigatus. Fernald. Rare escape.

Viburnum. Arrow-wood.

V. acerifolium. L. Maple-leaved Viburnum. Frequent in rocky woods.

V. alnifolium. Marsh. Hobblebush. Common in rich woods above 1000 feet.

V. cassinoides. L. Withe-rod. Wild Raisin. Common in shady swamps.

V. dentatum. L. Arrow-wood. Occasional in fence rows.

V. Lentago. L. Nanny-berry. Sweet Viburnum. Occasional in fence rows.

V. Opulus. L. var. americanum. (Mill.) Ait. High-bush Cranberry. Cranberry Tree. Frequent in fence rows.

Valerianaceae. Valerian Family.

Valeriana.

V. officinalis. L. Garden Heliotrope. Rare garden escape.

Cucurbitaceae. Gourd Family.

Echinocystis. Wild Balsam-apple.

E. lobata. (Michx.) T. & G. Wild Cucumber. Common on stream banks and in moist places. Frequently is found running over the bushes in the fence rows.

Campanulaceae. Bluebell Family.

Campanula. Bellflower.

C. rapunculoides. L. Creeping Bellflower. Frequent on roadsides.

C. rotundifolia. L. Harebell. Occasional in rocky places.

Lobeliaceae. Lobelia Family.

Lobelia.

L. inflata. L. Indian Tobacco. Common everywhere.

L. Kalmii. L. Brook Lobelia. Common near streams and in wet places.
L. spicata. Lam. Pale Lobelia. Common in dry fields. A pure white form is abundant in one field and is occasionally found elsewhere.

Compositae. Composite Family.

Achillea. Yarrow.
A. ligustica. All. Rare.
A. Millefolium. L. Common Yarrow. Common in all places. Plants having pink to dark red flowers occur.
A. setacea. Waldst. Rare.

Ambrosia. Ragweed.
A. artemisiifolia. L. Roman Wormwood. Frequent in waste places.
A. psilostachya. DC. Rare.
A. trifida. L. Great Ragweed. Frequent in waste places.

Anaphalis. Everlasting.
A. margaritacea. (L.) B. & H. Pearly Everlasting. Common in dry places.

Antennaria. Ladies' Tobacco.
A. neglecta. Greene. Indian Tobacco. Common in dry fields.
A. neodioica. Greene. Frequent in waste dry places.
" " var. grandis. Fernald. Rare.
A. Parlinii. Fernald. Parlin's Cat's-foot. Rare.

Anthemis. Chamomile.
A. Cotula. L. Mayweed. Dog Fennel. Common in all waste places.

Arctium. Burdock.
A. Lappa. L. Great Burdock. Locally abundant.
A. minus. (Hill.) Bernh. Common Burdock. Common everywhere.

Artemisia. Wormwood.
A. Absinthium. L. Absinthe. Occasional in thickets.
A. annua. L. Annual Wormwood. Rare.
A. biennis. Willd. Biennial Wormwood. Occasional.
A. vulgaris. L. Common Mugwort. Common along roadsides.

Aster. Star-flower.
A. acuminatus. Michx. Whorled Mountain Aster. Frequent in woods.
A. cordifolius. L. Common Blue Wood Aster. Frequent in woods.

A. divaricatus. L. White Wood Aster. Common in woods.
A. lateriflorus. (L.) Britton. Starved Aster. Frequent in fence rows.
A. lateriflorus. var. hirsuticaulis. (Lindl.) Porter. Rare.
A. macrophyllus. L. Large-leaved Aster. Common in woods and thickets.
A. novae-angliae. L. New England Aster. Rather uncommon.
A. novae-angliae. var. roseus. (Desf.) DC. Very rare.
A. novi-belgii. L. New York Aster. Occasional along river.
A. paniculatus. Lam. Tall White Panicled Aster. Frequent in fields.
A. puniceus. L. Red-stalked Aster. Frequent in moist ground. A white-flowered form has been found.
A. Schreberi. Nees. Schreber's Aster. Occasional along roadsides.
A. tardiflorus. L. Northeastern Aster. Rare.
A. Tradescanti. L. Tradescant's Aster. Occasional in fence rows.
A. umbellatus. L. Tall Flat-topped White Aster. Common in moist places.
A. undulatus. L. Wavy-leaved Aster. Common in dry woods and thickets.
A. vimineus. Lam. Small White Aster. Occasional in fence rows.

Bidens. Bur Marigold.
B. cernua. L. Stick-tight. Common in all wet places.
B. frondosa. L. Common Beggar-ticks. Common in fields and fence rows.

Centaurea. Star Thistle.
C. Cyanus. L. Corn-flower. Bluebottle. Rare escape.
C. maculosa. Lam. Spotted Knapweed. Rare.

Chrysanthemum. Ox-eye Daisy.
C. Leucanthemum. L. var. pinnatifidum. Lecoq & Lamotte. Common Daisy. Common in fields and roadsides.
C. Parthenium. (L.) Bernh. Feverfew. Locally established.

Cichorium. Chicory.
C. Intybus. L. Common Chicory. Rare.

Cirsium. Plumed Thistle.
C. arvense. (L.) Scop. Canada Thistle. Common in fields, a most pernicious weed.

C. discolor. (Muhl.) Spreng. Field Thistle. Frequent in fields.
C. lanceolatum. (L.) Hill. Common, or Bull Thistle. Frequent in fields and along roadsides.
C. muticum. Michx. Swamp Thistle. Frequent in wet fields.
C. pumilum. (Nutt.) Spreng. Pasture Thistle. Frequent in fields.

Coreopsis.
C. tinctoria. Nutt. Garden Coreopsis. Rare escape.

Crepis. Hawk's Beard.
C. capillaris. (L.) Wallr. Smooth Hawk's Beard. Occasional in grassland.

Erechtites. Fireweed.
E. hieracifolia. (L.) Raf. Pilewort. Occasional in thickets.

Erigeron. Fleabane.
E. annuus. (L.) Pers. Daisy Fleabane. Common everywhere.
E. canadensis. L. Horse-weed. Common everywhere.
E. hyssopifolius. Michx. Hyssop-leaved Erigeron. Locally abundant.
E. philadelphicus. L. Philadelphia Fleabane. Frequent along roads.
E. pulchellus. Michx. Robin's plantain. Common along roadsides.
E. ramosus. (Walt.) BSP. Daisy Fleabane. Common in fields.
E. ramosus. var. discoideus. (Robbins.) BSP. Rare.

Eupatorium. Thoroughwort.
E. perfoliatum. L. Boneset. Common in wet places.
E. purpureum. L. var. maculatum. (L.) Darl. Joe-Pye-weed. Common along streams.
E. urticaefolium. Reichard. White Snake-root. Common in woods.

Galinsoga.
G. parviflora. Cav. Frequent as a weed in gardens.
" " var. hispida. DC. Common as a weed in cultivated ground.

Gnaphalium. Cudweed.
G. decurrens. Ives. Winged Cudweed. Frequent on grassy hills.
G. polycephalum. Michx. Common Everlasting. Common in pastures.

G. uliginosum. L. Low Cudweed. Common in moist places.

Helianthus. Sunflower.
H. annuus. L. Common Sunflower. Frequent escape along river.
H. decapetalus. L. Wild Sunflower. Common along river.
H. strumosus. L. Pale-leaved Wild Sunflower. Occasional along river.
H. tuberosus. L. Jerusalem Artichoke. Common along river.

Heliopsis. Ox-eye.
H. scabra. Dunal. Rough Sunflower. Rare escape.

Hieracium. Hawkweed.
H. aurantiacum. L. Orange Hawkweed. Devil's Paintbrush. Common everywhere, a most pernicious plant.
H. florentinum. All. King Devil. Rare,—so far, but probably will become a nuisance.
H. paniculatum. L. Panicled Hawkweed. Common in woods.
H. Pilosella. L. var. viride. Sw. Rare.
H. pratense. Tausch. Field Hawkweed. Becoming frequent in grass.
H. scabrum. Michx. Rough Hawkweed. Common in dry fields.

Hypochaeris. Gosmore.
H. radicata. L. Long-rooted Cat's-ear. Rare.

Inula. Horseheal.
I. Helenium. L. Elecampane. Frequent along roadsides.

Krigia. Cynthia.
K. virginica. (L.) Willd. Locally abundant.

Lactuca. Lettuce.
L. canadensis. L. Wild Lettuce. Common in rich soil.
L. integrifolia. Bigel. Occasional.
L. spicata. (Lam.) Hitch. Wild Blue Lettuce. Common in fence rows.

Lapsana.
L. communis. L. Nipplewort. Rare.

Leontodon. Hawkbit.
L. autumnalis. L. Fall Dandelion. Locally abundant.

Matricaria. Wild Chamomile.
M. suaveolens. (Pursh.) Buchenau. Pineapple-weed. Locally abundant.

Prenanthes. Rattlesnake-root.

P. alba. L. White Lettuce. Common in rich soil.

P. altissima. L. Gall-of-the-earth. Occasional in rich soil.

P. trifoliata. (Cass.) Fernald. Gall-of-the-earth. Common in dry soil.

Rudbeckia. Cone-flower.

R. hirta. L. Black-eyed Susan. Common everywhere. Very variable in shape, size, and color of flower-heads.

R. laciniata. L. Tall Cone-flower. Common in wet ground.

Senecio. Rag-wort.

S. aureus. L. Golden Ragwort. Common in wet ground.

S. Balsamitae. Muhl. Balsam Groundsel. Frequent in moist places.

S. Robbinsii. Oakes. Robbin's Squaw-weed. Common in swampy places.

Solidago. Golden-rod.

S. arguta. Ait. Cut-leaved Golden-rod. Frequent in old fields.

S. bicolor. L. Silver-rod. Common in the woods and roadsides.

S. caesia. L. Blue-stemmed Golden-rod. Common in woods.

S. caesia. var. axillaris. (Pursh.) Gray. Occasional.

S. canadensis. L. Canada Golden-rod. Common in fields.

S. graminifolia. (L.) Salisb. Grass-leaved Golden-rod. Common in moist ground.

S. latifolia. L. Zig-zag Golden-rod. Abundant on shady banks.

S. nemoralis. Ait. Gray, or Field Golden-rod. Common in dry ground.

S. patula. Muhl. Rough-leaved Golden-rod. Occasional.

S. rugosa. Mill. Rough Golden-rod. Common in fence rows and thickets.

S. serotina. Ait. Late Golden-rod. Common in fence rows.

S. serotina. var. gigantea. (Ait.) Gray. Frequent in moist ground.

S. squarrosa. Muhl. Stout ragged Golden-rod. Frequent in woods.

S. uliginosa. Nutt. Bog Golden-rod. Locally abundant.

S. ulmifolia. Muhl. Elm-leaved Golden-rod. Common in fence rows. Plants thought to be hybrids between *S. caesia* and *latifolia* have been found.

Sonchus. Sow Thistle.

S. arvensis. L. Field Sow Thistle. Frequent in moist places.

S. asper. (L.) Hill. Spiny-leaved Sow Thistle. Common in cultivated ground.

S. oleraceus. L. Common Sow Thistle. Common as a weed in cultivated ground.

Tanacetum. Tansy.

T. vulgare. L. Common Tansy. Frequent along roadsides.

T. vulgare. var. crispum. DC. Occasional along roadsides.

Taraxacum. Dandelion.

T. erythrospermum. Andrz. Red-seeded Dandelion. Frequent everywhere.

T. officinale. Weber. Common Dandelion. Common everywhere.

Tragopogon. Goat's Beard.

T. pratensis. L. Meadow Salsify. Common on roadsides and fields.

Tussilago.

T. Farfara. L. Coltsfoot. Common along streams and in wet places.

ADDENDA

With the exception of the variety acrifolium of the Stiff Club Moss, and the Buckbean, all the following plants had been collected at the time the list was compiled in 1930, but were not named until 1931.

An auricled and much incised form of the Silvery Spleenwort,—possibly the same form described by Lawson as var. serratum.
The variety pseudocaudatum. Clute. of the Common Brake.
The variety acrifolium. Fernald. of Lycopodium annotinum.
Potamogeton heterophyllus. Schreb.
Juncus debilis. A. Gray. Rare.
Acnida cannabina. L. One plant.
Rubus ideaus. var. aculeatissimus. f. albus. Fernald.
Oxalis europaea. var. cymosa. (Small) Weigand.
Sanicula gregaria. Bicknel. Clustered Snake root.
Menyanthes trifoliata. L. Buckbean.
Aster cordifolius. L. White flowered form.
Aster puniceus. var. demissus. Lindl.

Bot
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May 17, 1932. 267508

Author Kittredge, E.M.(comp.)

Title Ferns and flowering plants of Woodstock, Vermont.

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